Work Order ID 61552

Monday, August 30, 2010 11:19:44 AM

Item ID: D350-561-141 **Accept** **Setup Start** **Stop**

Revision ID:

Item Name: Single Cargo Mirror Assembly

Start Date: 8/30/2010 **Start Qty:** 1.00 **Cust Item ID:**

Required Date: 9/6/2010 **Req'd Qty:** 1.00 **Customer:**

Reference:

Approvals: **Process Plan:** M **Date:** 10-8-3d **Tooling:** _____ **Date:** _____ **Run Start** **Stop**

QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	**Revision Nbr**								
N/A	~~Rev N/A~~ Rev D								PTO-7
100	DOCUMENT CONTROL	0.00							
DC	**Memo**	0.00							
Document Control	Photocopy bluefile and create labels per PPP D350-561-141 CHG003								
105	Pick Kit	0.00							
Packaging	**Memo**	0.00							
Packaging									
110	QC4- 100% Inspect kits for completeness	0.00							
QC	**Memo**	0.00							
Quality Control									

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE Perm. Dwg	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
10/9/7	~~#~~ 100	header box should be now @ Rev D		10.09.08			10/09/07

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Work Order ID 61552

Monday, August 30, 2010 11:19:44 AM

Item ID: D350-561-141 **Accept** **Setup Start**

Revision ID:

Item Name: Single Cargo Mirror Assembly **Stop**

Start Date: 8/30/2010 **Start Qty:** 1.00 **Cust Item ID:**

Required Date: 9/6/2010 **Req'd Qty:** 1.00 **Customer:**

Reference:

Run Start

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____ **Stop**

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120		0.00							
Packaging	Packaging								
	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D350-561-141								
		Nev C							
130	QC21- Final Inspection - Work Order Release	0.00							
QC	**Memo**	0.00							
Quality Control									

10/09/08

mf

10-9-8

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Picklist Print

Monday, August 30, 2010 11:19:50 AM

Work Order ID: 61552

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 8/30/2010 **Required Date:** 9/6/2010

Start Qty: 1.00 **Required Qty:** 1.00

Comments: IPP A 07.07.26 new issue (DSI9379) EC verified by:JLM IPP rev B 10.02.16 per ecn 10-523 EC verified by: DD IPP Rev:C add pick kit DD 10.03.15 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2011-101 6" Mirror		Manufactured	No			105	Each	9.0000	1	1	10/9/38		
				Location		**Loc Qty**		**Loc Code**					
				ST228		2							
					61275	2							
				ST231		7							
					58398	7							
D2012-105 Arm		Manufactured	No			105	Each	21.0000	1	1	10/9/38		
				Location		**Loc Qty**		**Loc Code**					
				ST229		21							
					57544	1							
					~~59807~~	10							
					60426	10							
D2012-107 Clevis		Manufactured	No			105	Each	19.0000	1	1	10/9/38		
				Location		**Loc Qty**		**Loc Code**					
				ST004		19							
					40274	1							
					~~46634~~	18							

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Picklist Print

Monday, August 30, 2010 11:19:50 AM

Work Order ID: 61552

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 8/30/2010 **Required Date:** 9/6/2010

Start Qty: 1.00 **Required Qty:** 1.00

D2012-111 Bracket	Manufactured	No		105	Each	11.0000	1	1	10/9/38
	Location		**Loc Qty**		**Loc Code**				
	ST004		11						
		40148	11						
D2012-115 Bracket, Clevis	Manufactured	No		105	Each	52.0000	1	1	10/9/38
	Location		**Loc Qty**		**Loc Code**				
	ST004		52						
		25581	52						
D2022-101 Spacer	Manufactured	No		105	Each	76.0000	2	2	10/9/38
	Location		**Loc Qty**		**Loc Code**				
	ST504		76						
		50746	23						
		52325	53						
D3629-1 Bracket	Manufactured	No		105	Each	6.0000	1	1	10/9/3
	Location		**Loc Qty**		**Loc Code**				
	ST244A		6						
		48560	6						
D3635-1 Gasket	Manufactured	No		105	Each	8.0000	1	1	10/9/38
	Location		**Loc Qty**		**Loc Code**				
	ST076		8						
		60427	8						

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Picklist Print

Monday, August 30, 2010 11:19:50 AM

Work Order ID: 61552

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 8/30/2010 **Required Date:** 9/6/2010

Start Qty: 1.00 **Required Qty:** 1.00

D3635-3 Gasket	Manufactured	No		105	Each	34.0000	2	2	10/9/3 sf Pro →
			Location		**Loc Qty**	**Loc Code**			
			ST076		34				
			56399		34				
D3646-1 Arm	Manufactured	No		105	Each	7.0000	1	1	10/9/3 sf
			Location		**Loc Qty**	**Loc Code**			
			ST229		7				
			58836		7				
D3646-3 Arm	Manufactured	No		105	Each	15.0000	1	1	10/9/3 sf
			Location		**Loc Qty**	**Loc Code**			
			ST229		15				
			58837		5				
			60429		10				
D4070-041 Clamp	Manufactured	No		105	Each	63.0000	2	2	10/9/3 sf
			Location		**Loc Qty**	**Loc Code**			
			ST460		63				
			56381		63				

Dart Aerospace Ltd

W/O: 6552	WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE Perm. change "Per IZN Rev D"	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
10/9/7	#100	Remove D3635-3 from Part List + w/o Per IZN Rev D.	[illegible]	10/9/7			S 10/9/07
		ADD ~~A~~ A13-SA ~~M~~ # 105-57 qty x3 per lot -S 10/09/07	[illegible]	[illegible]			
10/9/7	#100	update w/o + Bom Per IZN Rev D. ADD copy of new Bom for ref.	[illegible]	10.09.08			S 10/09/07

Part No: D350-561-141 **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:	WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Picklist Print

Monday, August 30, 2010 11:19:51 AM

Work Order ID: 61552

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 8/30/2010 **Required Date:** 9/6/2010

Start Qty: 1.00 **Required Qty:** 1.00

AN3-4A Bolt	Purchased	No	105	Each	1,136.000	3	3	10/9/3 SP

Location	Loc Qty	Loc Code
ST350	1136	
104214	129	
104291	300	
104322	200	
104374	200	
104625	300	
104817	7	3

AN3-6A Bolt	Purchased	No	105	Each	270.0000	1	1	10/9/3 SP

Location	Loc Qty	Loc Code
ST351	270	
113359	70	
114941	200	

AN4-5A Bolt	Purchased	No	105	Each	260.0000	3	3	10/9/3 SP

Location	Loc Qty	Loc Code
ST356	260	
114108	13	
114330	147	3
115016	100	

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Picklist Print

Monday, August 30, 2010 11:19:51 AM

Work Order ID: 61552

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 8/30/2010 **Required Date:** 9/6/2010

Start Qty: 1.00 **Required Qty:** 1.00

AN4-10A Bolt		Purchased	No		105	Each	104.0000	1	1	10/9/38

Location		Loc Qty	Loc Code
ST356		104	
	113422	4	
	114523	100	

AN960JD10 Washer	NAS1149D0363J	Purchased	No		105	Each	6.0000	8	8	M115107 10/9/38

Location		Loc Qty	Loc Code
ST		6	
	107715	6	

AN960JD416 Washer	NAS1149D0463J	Purchased	No		105	Each	0.0000	8	8	M115000 10/9/38
MS21042L3 Nut		Purchased	No		105	Each	2,176.000	4	4	10/9/38

Location		Loc Qty	Loc Code
ST300		2176	
	114523	115	
	114718	61	
	114784	2000	

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Picklist Print

Monday, August 30, 2010 11:19:51 AM

Work Order ID: 61552

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 8/30/2010 **Required Date:** 9/6/2010

Start Qty: 1.00 **Required Qty:** 1.00

6 MS21042L4 Nut	Purchased	No	105	Each	2,527.000	4	4	10/9/3	

Location	Loc Qty	Loc Code	
ST300	2527		
113422	68		
114523	28		
114718	16		
114784	495		4
115108	1920		

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

5. PARTS LIST

Qty -041	Qty -043	Qty -045	Qty -141	Qty -143	Part Number	Description
X	1				**D350-561-041**	**SINGLE MIRROR INSTALLATION**
	X				**D350-561-043**	**DUAL MIRROR INSTALLATION**
	1	X		1	**D350-561-045**	**MIRROR KIT**
			X	1	**D350-561-141**	**SINGLE MIRROR INSTALLATION**
				X	**D350-561-143**	**DUAL MIRROR INSTALLATION**
1		1	1		D2011-101	Mirror
1					D2012-101	Arm
1					D2012-103	Arm
1			1		D2012-105	Arm
2			1		D2012-107	Clevis
1					D2012-109	Bracket
1			1		D2012-111	Bracket
4		2			D2012-113	Clamp
1			1		D2012-115	Bracket
4			2		D2022-101	Spacer
4					D2856-100-325	Abrasion Strip
1*		1*	1*		D3014-1	Locknut
			1		D3629-1	Bracket
			1		D3635-1	Gasket
		2			D3635-3	Gasket
			1		D3646-1	Arm
			1		D3646-3	Arm
			2		D4070-041	Clamp
2		2	3		AN3-4A	Bolt
2			3		AN3-5A	Bolt
1			1		AN3-6A	Bolt
2			1		AN4-10A	Bolt
3			3		AN4-5A	Bolt
14		4	8		AN960JD10	Washer
9		2	8		AN960JD416	Washer
1*		1*	1*		AN960JD416L	Washer
5		2	4		MS21042L3	Nut (or MS21042-3)
5			4		MS21042L4	Nut (or MS21042-4)

*INCLUDED AS PART OF D2011-101 MIRROR

• COPYRIGHT © 2010 BY DART AEROSPACE LTD •
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.